

STATEMENT OF BASIS

as required by LAC 33:IX.3109, for draft **Louisiana Pollutant Discharge Elimination System Permit No. LA0124826; AI 43547; PER20090001** to discharge to waters of the State of Louisiana as per LAC 33:IX.2311.

The **permitting authority** for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

- I. **THE APPLICANT IS:** Louisiana Land and Water Company
 Love Estates and Towneast Subdivision STP
 2800 North 7th Street
 West Monroe, LA 71291
- II. **PREPARED BY:** Afton J. Bessix
- DATE PREPARED:** May 14, 2010
- III. **PERMIT ACTION:** reissue LPDES permit LA0124826, AI 43547; PER20090001

LPDES application received: June 2, 2009

Previous LPDES Permit Number: LAG570387
LPDES permit issued: September 14, 2006
LPDES permit expired: March 14, 2009

- ❖ Due to the high amount of effluent violations, this facility is being re-permitted as an Individual Permit.

IV. **FACILITY INFORMATION:**

- A. The application is for the discharge of treated sanitary wastewater from a privately owned treatment works serving the Love Estates and Towneast Subdivision.
- B. The permit application does not indicate the receipt of industrial wastewater.
- C. The facility is located at the North end of Love Estates Subdivision in West Monroe, Ouachita Parish.
- D. The treatment facility consists of a one-cell oxidation pond with aeration and bio-remediation. The bio-remediation is described as a 55,000 gallon aeration and grease removal pretreatment unit. Grease is removed before it enters into the primary Lagoon. Inside the Lagoon is an additional aeration unit, in which 25% of the final cell of the Lagoon utilizes a rock filter. Disinfection is by chlorination.

E. Outfall 001

Discharge Location: Latitude 32° 31' 56" North
 Longitude 91° 59' 20" West

Description: treated sanitary wastewater

Expected Flow: 180 of homes x 400 gallons/day/home = 0.072 MGD

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Calculations for gallons per day were based upon figures obtained from Chapter 15 of the State of Louisiana Sanitary Code, Department of Health and Hospitals, Office of Public Health.

Type of Flow Measurement which the facility is currently using:
V-Notch Weir

V. RECEIVING WATERS:

The discharge is into the parish drainage ditch; thence into Patrick Bayou in segment 080904 of the Ouachita River Basin. This segment is not listed on the 303(d) list of impaired waterbodies.

The designated uses and degree of support for Segment 080904 of the Ouachita River Basin are as indicated in the table below^{1/}:

Overall Degree of Support for Segment 080904	Degree of Support of Each Use						
	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
Partial	Full	Full	Not Supported	N/A	N/A	N/A	N/A

^{1/}The designated uses and degree of support for Segment 080904 of the Ouachita River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2006 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 080904 of the Ouachita River Basin, is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U. S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated November 17, 2008 from Rieck (FWS) to Nolan (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the 'Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits' no consultation with the Louisiana State Historic Preservation Officer is required.

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VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

For additional information, contact:

Ms. Afton J. Bessix
Water Permits Division
Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

IX. PROPOSED PERMIT LIMITS:

Subsegment 080904, Bayou Lafourche-Near Oakridge to Boeuf River near Columbia, is not listed on LDEQ's Final 2006 303(d) List as impaired. However subsegment 080904 was previously listed as impaired for organic enrichment/low DO, nutrients, priority organics (including Dioxin), suspended solids/turbidity, and phosphorus, for which the below TMDLs have been developed. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional TMDLs and/or water quality studies. The DEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to establish TMDLs for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as necessary to achieve compliance with water quality standards.

The following TMDLs have been established for subsegment 080904:

Bayou Lafourche TMDLs for Dissolved Oxygen and Nutrients

This TMDL required upgrades to four point sources. Love Estates and Towneast Subdivision sewage treatment plant was not considered large enough to be included in the model and, therefore, was not required to upgrade. Therefore, limitations for BOD₅ will be permitted according to the current state water quality policy.

TMDL for TSS, Turbidity, and Siltation For 13 Subsegments in the Ouachita River Basin

The TSS effluent limitation established in the previous permit (15 mg/l monthly average / 23 mg/l weekly average) was based on Best Professional Judgement (BPJ) from the agency's understanding of the Statewide Sanitary Effluent Limitations Policy (SSELP) at that time. It is currently recognized that TSS is not a component in the modeling for DO impairments. Therefore, the SSELP allows for TSS limitations to be established on a case-by-case basis (not to exceed secondary treatment regulations) depending on the type of treatment system. This facility utilizes an oxidation pond, which is incapable of meeting advanced TSS levels established in the previous permit. Point source discharges from oxidation ponds primarily discharge organic TSS, such as algae, fish eggs, insect larvae, etc. The

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TMDL only addresses geomorphic contributions of TSS/sediment, not organic TSS. As per the TMDL, "organic TSS is a non-conservative constituent that would only be detected as a component in proximity to the discharge point." The discharge of the organic TSS is not expected to be a significant contributor to the overall water quality impairment in the receiving waterbody. Therefore, the TSS limitations have been adjusted to secondary levels (30 mg/l monthly average / 45 mg/l daily maximum).

Dioxin TMDL for Tisdale Brake, Staulkinghead Creek, Little Bayou Beouf, Wham Brake, and Bayou Lafourche

According to the TMDL, the only identified point source of dioxin is from IP's Louisiana Mill (LA0007561) discharging into Staulkinghead Creek. Therefore, this facility is not expected to discharge amounts of dioxin that would exceed state water quality standards. Therefore, requirements for dioxin shall not be placed into the permit.

Final Effluent Limits:

OUTFALL 001

Final limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Daily Max.	Basis
BOD ₅	N/A*	10 mg/l	15 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for facilities of this treatment type and size.
TSS	N/A*	30 mg/l	45 mg/l	Since there is no numeric water quality criterion for TSS, and in accordance with the current Water Quality Management Plan, the TSS effluent limitations shall be based on a case-by-case evaluation of the treatment technology being utilized at a facility. Therefore, a Technology Based Limit has been established through Best Professional Judgement for the type of treatment technology utilized at this facility.

*Concentration limits are used in accordance with LAC 33:IX.2709.F.1.b which states that mass limitations are not necessary when applicable standards and limitations are expressed in other units of measurement. LAC 33:IX.709.B references LAC 33:IX.711 which express BOD₅ and TSS in terms of concentration.

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Other Effluent Limitations:**1) Fecal Coliform**

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5., the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Daily Maximum) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgement in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

2) pH

According to LAC 33:IX.3705.A.1., POTW's must treat to at least secondary levels. Therefore, in accordance with LAC 33:IX.5905.C., the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

3) Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

X. PREVIOUS PERMITS:

LPDES Permit No. LAG570387: Issued: September 14, 2006

Expired: March 14, 2009

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Monthly Avg.</u>	<u>Weekly Avg.</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	Report	Report	1/month	Measure
BOD ₅	10 mg/l	15 mg/l	1/month	Grab
TSS	15 mg/l	23 mg/l	1/month	Grab
Fecal Coliform Colonies	200	400	1/month	Grab

XI. ENFORCEMENT AND SURVEILLANCE ACTIONS:**A) Inspections**

A review of the files indicates the following inspections were performed during the period beginning July 2007 and ending June 2009 for this facility.

Date: December 18, 2008

Inspector: LDEQ

Findings and/or Violations:

1. LDEQ permit writer, Afton Bessix, stated that a renewal or modification permit application for this facility had not been received at LDEQ; whereas, a modification permit application has not been observed in the LDEQ EDMS / received / submitted for discharges of treated sanitary wastewater of 100,000 GPD or greater.
2. Records, including but not limited to, the permit, the permit application, DMRs, and sample analysis reports, were requested from Mr. Pruett at the time of the inspection; albeit, the records were not produced to this inspector for review.
3. As of December 18, 2008, the August 2008 DMR was not present in LDEQ EDMS and/or was not submitted to LDEQ.
4. Fecal Coliform was incorrectly reported as "0" for the months and year of September 2006,

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October 2006, and November 2006 (i.e. minimum reporting is <1).

5. The flow exceeded the maximum quantity of <100,000 GPD for a Sanitary Class IV permit for the months and years of August 2007, October 2007, November 2007, December 2007, January 2008, February 2008, March 2008, July 2008, and September 2008.
6. The BOD₅ permit limitation was exceeded for the months and years of September 2006, October 2006, November 2006, December 2006, January 2007, February 2007, March 2007, April 2007, May 2007, October 2007, December 2007, February 2008, March 2008, and July 2008.
7. The TSS permit limitation was exceeded for the months and years of September 2006, October 2006, November 2006, December 2006, January 2007, February 2007, March 2007, April 2007, May 2007, August 2007, October 2007, December 2007, January 2008, February 2008, March 2008, April 2008, May 2008, June 2008, July 2008, September 2008.
8. The discharge was observed to be clear to light green in color and devoid of solids and foam.

Date: October 28, 2009

Inspector: LDEQ

Findings and/or Violations:

1. Erosion on both the north and south sides of the manhole located between 26 and 28 Town East indicated that the manhole had two leaks.
2. At the time of inspection, there was no obvious sewage in the ditch.
3. Inspector spoke with Mr. John Pruett, Owner/Operator, by phone and he stated that he was aware of the problem.
4. Mr. Pruett also stated that he would repair the manhole the week of November 2, 2009.
5. The site was visited on November 6, 2009 and no repairs had been made.

Date: November 9, 2009

Inspector: LDEQ

Findings and/or Violations:

1. A complaint was made on November 9, 2009 about sewage being in the east ditch of Town East Drive in Town East Subdivision in the vicinity of 28 Town East Drive.
2. LDEQ met with Mike Risinger at 28 Town East Drive.
3. The east road ditch was stained with sewage residue north and south of this location.
4. Sewage was pooled in the ditch at 22 and 24 Town East Drive.
5. Sewage was observed flowing into both sides of the manhole at the edge of 28 and 26 Town East Drive.
6. Mike Risinger said the breaker tripped on the pumps at the lift station, which caused sewage to flow out both sides of the manhole into the ditch.
7. When Risinger turned the pumps back on, then the sewage flowed back into both sides of the manhole.
8. LDEQ inspector, J. Posey, told Mr. Risinger the pooled sewage should be picked up by a vac truck and the area disinfected. He called the Bordelon Sewage Service.
9. LDEQ inspector, J. Posey, also told Mr. Risinger that the holes should be fixed in the manhole. Mr. Risinger said their backhoe had been down, and LDEQ expressed to him that backhoes could be rented.
10. The holes in the manhole were present at a sewage overflow on an October 28, 2009 inspection (C09-3577 / T119091) by Stuart Smith. The problem still had not been addressed.
11. J. Posey had previously spoken with Jeff Pruett by phone at 1450 hrs on November 9, 2009 and he said a work order had been placed to fix the manhole at 28 Town East Drive.
12. Stuart Smith and J. Posey inspected the site at 1055 hrs on November 10, 2009.
 - a. The ditch had been disinfected, the pooled sewage pumped back into a manhole with a trash pump, and the manhole was excavated with a crew and Mike Risinger repairing the manhole with mortar.

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- b. The total amount of sewage discharged in this incident was unknown.
- c. The percentage of recovery appeared to be high.

B) Compliance and/or Administrative Orders

A review of the files indicates that a penalty assessment in the amount of \$143,353.38 was served on Louisiana Land & Water Company, Inc for violations described:

LDEQ Issuance:

Enforcement Tracking No.: MM-P-09-0037

Date Issued: June 30, 2009

Findings of Fact:

1. On or about September 14, 2006, the Respondent was granted coverage under LPDES General Permit LAG570387 and expires March 14, 2009.
2. On or about January 22, 2004, in response to a citizen's complaint, revealed that the Respondent did cause or allow the unauthorized discharge of sanitary wastewater from a manhole located on Lisa Drive.
3. A file review conducted on or about March 15, 2007, and a subsequent review conducted on or about May 21, 2009, revealed that the Respondent became the owner or operator of the facility on or about June 27, 2003. However, the Respondent did not obtain an LPDES permit to operate and/or discharge from this facility until September 14, 2006, and continued to discharge as indicated by the submittal of DMRs.
4. A file review conducted on or about March 15, 2007, revealed that the Respondent submitted an inaccurate DMR for the monitoring period of September 2006. The Respondent DMR was submitted under the name of Cypress Utilities and contained the wrong permit number.
5. On or about March 19, 2007, Consolidated Compliance Order and Notice of Potential Penalty WE-CN-05-0509 was issued to the Respondent for violations.

Respondent shall further be on notice that:

1. By filing a written request with the Secretary no later than 30 days after receipt of the penalty assessment, the Respondent has a right to an adjudicatory hearing on a disputed issue of material fact or of law arising from the assessment.
2. The request for an adjudicatory hearing shall specify the provisions of the penalty assessment on which the hearing is requested and shall briefly describe the basis for the request.
3. Upon the Respondent's timely filing a request for a hearing on the disputed issue of material fact or of law regarding the penalty assessment may be scheduled by the Secretary of the Department.
4. The penalty assessment shall become a final enforcement action unless the request for a hearing is timely filed.
5. The Respondent must make full payment of the civil penalty assessed herein no later than 15 days after the assessment becomes final.
6. Upon the penalty assessed herein becoming final because of the Respondent's failure to timely file a request for a hearing, and upon the Respondent's failure to pay the civil penalty provided herein or failure to make arrangements satisfactory to the Department for such payment, this matter shall be referred to the Attorney General for collection of the penalty plus all costs associated with the collection.
7. For each violation described herein, the Department reserves the right to seek compliance with its rules and regulations in any manner allowed by law and nothing herein shall be construed to preclude the right to seek such compliance.

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C) DMR Review

A review of the discharge monitoring reports for the period beginning June 2007 through June 2009 has revealed the following violations:

Parameter	Outfall	Period of Excursion	Permit Limit	Reported Quantity
Fecal Coliform, Monthly Avg.	001	September 2007	200 col/100 ml	632 col/100 ml
Fecal Coliform, Weekly Avg.			400 col/100 ml	632 col/100 ml
BOD ₅ , Monthly Avg.	001	October 2007	10 mg/l	11.7 mg/l
TSS, Monthly Avg.	001	October 2007	15 mg/l	33 mg/l
TSS, Weekly Avg.			23 mg/l	33 mg/l
BOD ₅ , Monthly Avg.	001	December 2007	10 mg/l	28.4 mg/l
BOD ₅ , Weekly Avg.			15 mg/l	28.4 mg/l
TSS, Monthly Avg.	001	December 2007	15 mg/l	66.7 mg/l
TSS, Weekly Avg.			23 mg/l	66.7 mg/l
TSS, Weekly Avg.	001	January 2008	15 mg/l	18 mg/l
BOD ₅ , Monthly Avg.	001	February 2008	10 mg/l	22 mg/l
BOD ₅ , Weekly Avg.			15 mg/l	22 mg/l
TSS, Monthly Avg.	001	February 2008	15 mg/l	19 mg/l
TSS, Weekly Avg.			23 mg/l	19 mg/l
BOD ₅ , Monthly Avg.	001	March 2008	10 mg/l	19.1 mg/l
BOD ₅ , Weekly Avg.			15 mg/l	19.1 mg/l
TSS, Monthly Avg.	001	March 2008	15 mg/l	40 mg/l
TSS, Weekly Avg.			23 mg/l	40 mg/l
TSS, Monthly Avg.	001	April 2008	15 mg/l	26 mg/l
TSS, Weekly Avg.			23 mg/l	26 mg/l
TSS, Monthly Avg.	001	May 2008	15 mg/l	24 mg/l
TSS, Weekly Avg.			23 mg/l	24 mg/l
TSS, Monthly Avg.	001	June 2008	15 mg/l	28 mg/l
TSS, Weekly Avg.			23 mg/l	28 mg/l
BOD ₅ , Monthly Avg.	001	July 2008	10 mg/l	14 mg/l
TSS, Monthly Avg.	001	July 2008	15 mg/l	39 mg/l
TSS, Weekly Avg.			23 mg/l	39 mg/l
Fecal Coliform, Monthly Avg.	001	July 2008	200 col/100 ml	1,120 col/100 ml
Fecal Coliform, Weekly Avg.			400 col/100 ml	1,120 col/100 ml
TSS, Monthly Avg.	001	August 2008	15 mg/l	25 mg/l
TSS, Weekly Avg.			23 mg/l	25 mg/l
TSS, Monthly Avg.	001	September 2008	15 mg/l	18 mg/l
BOD ₅ , Monthly Avg.	001	January 2009	10 mg/l	61.6 mg/l
BOD ₅ , Weekly Avg.			15 mg/l	61.6 mg/l
TSS, Monthly Avg.	001	January 2009	15 mg/l	75 mg/l
TSS, Weekly Avg.			23 mg/l	75 mg/l
BOD ₅ , Monthly Avg.	001	February 2009	10 mg/l	14.8 mg/l
TSS, Monthly Avg.	001	February 2009	15 mg/l	31 mg/l
TSS, Weekly Avg.			23 mg/l	31 mg/l
TSS, Monthly Avg.	001	March 2009	15 mg/l	74 mg/l
TSS, Weekly Avg.			23 mg/l	74 mg/l
BOD ₅ , Monthly Avg.	001	April 2009	10 mg/l	185 mg/l
BOD ₅ , Weekly Avg.			15 mg/l	185 mg/l
TSS, Monthly Avg.	001	April 2009	15 mg/l	82 mg/l
TSS, Weekly Avg.			23 mg/l	82 mg/l

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BOD ₅ , Monthly Avg.	001	May 2009	10 mg/l	27.8 mg/l
BOD ₅ , Weekly Avg.			15 mg/l	27.8 mg/l
TSS, Monthly Avg.	001	May 2009	15 mg/l	48 mg/l
TSS, Weekly Avg.			23 mg/l	48 mg/l
BOD ₅ , Monthly Avg.	001	June 2009	10 mg/l	27.8 mg/l
BOD ₅ , Weekly Avg.			15 mg/l	27.8 mg/l
TSS, Monthly Avg.	001	June 2009	15 mg/l	74 mg/l
TSS, Weekly Avg.			23 mg/l	74 mg/l

- ❖ Due to the high number of reporting issues noted above, the facility was referred to the Enforcement Division on December 23, 2009.

XII. ADDITIONAL INFORMATION:

The Louisiana Department of Environmental Quality (LDEQ) reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional water quality studies and/or TMDL's. The LDEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as requested by the permittee and/or as necessary to achieve compliance with water quality standards. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

In accordance with LAC 33:IX.2903., this permit may be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitations issued or approved under sections 301(b)(2)(c) and (D); 304(b)(2); and 307(a)(2) of the Clean Water Act, if the effluent standard or limitations so issued or approved:

- a) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
- b) Controls any pollutant not limited in the permit; or
- c) Requires reassessment due to change in 303(d) status of waterbody; or
- d) Incorporates the results of any total maximum daily load allocation, which may be approved for the receiving water body.

At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** for this facility shall be as follows:

<u>Effluent Characteristics</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
Flow	1/week	Measure
BOD ₅	2/month	Grab
Total Suspended Solids	2/month	Grab
Fecal Coliform Bacteria	2/month	Grab
pH	2/month	Grab

XIII. TENTATIVE DETERMINATION:

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in this Statement of Basis.

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XIV. REFERENCES:

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2005.

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report," Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards," Louisiana Department of Environmental Quality, 2004.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program," Louisiana Department of Environmental Quality, 2004.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

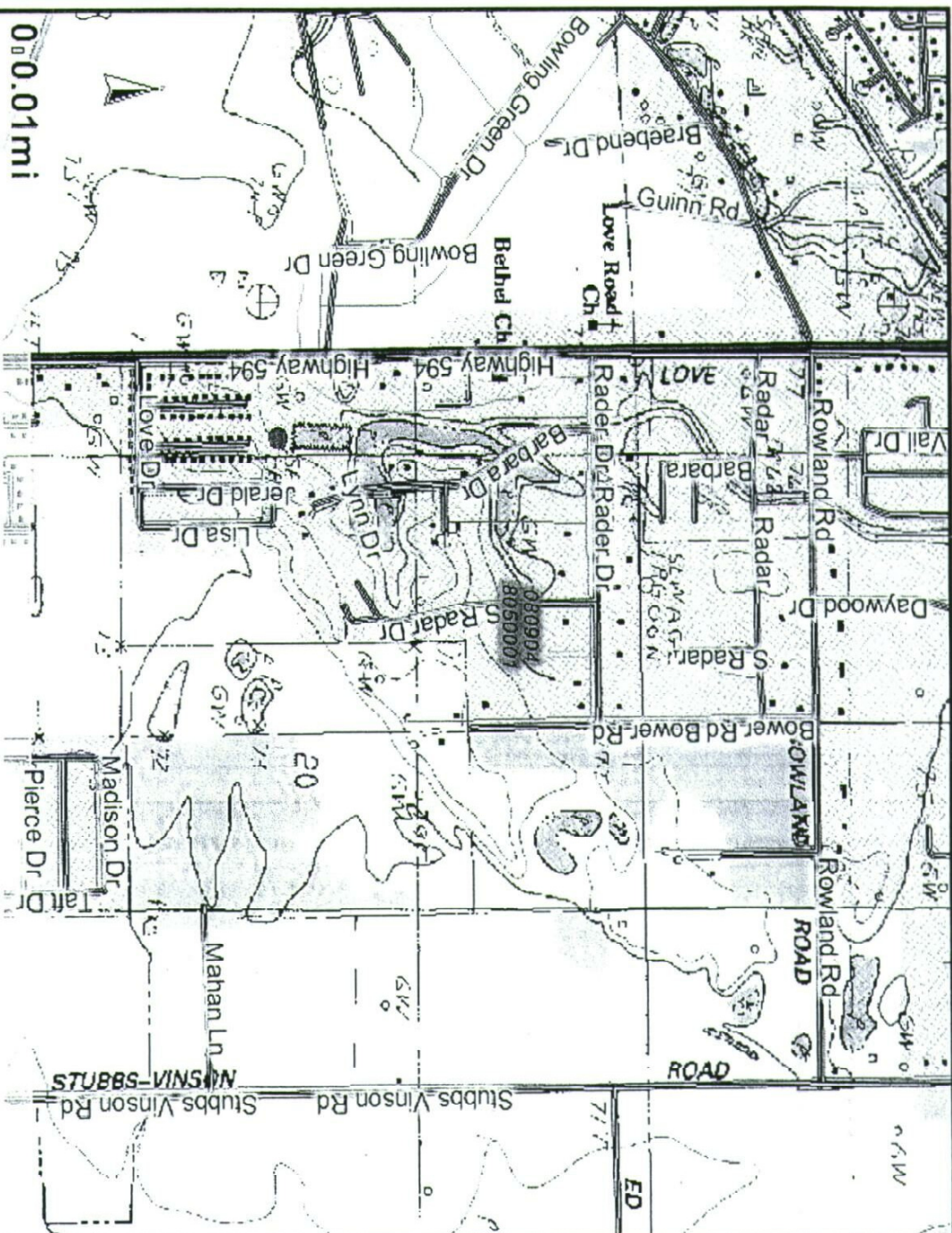
LPDES Permit Application to Discharge Wastewater, Louisiana Land and Water Company, Love Estates and Towneast Subdivision STP, June 2, 2009.



LDEQ Interactive Mapping



- USGS GMS WATER
- DOT ROADS
- Interstate Highway
- US Highway
- LA Highway
- Major Highway
- Minor Road
- Ramp
- Local Road
- LOOTO INTERSTATES 1999
- LOOTO US HIGHWAYS 1999
- LOOTO LA ROADS 1999
- DOT ROADS 2004
- USGS DLO RAILROADS
- USGS DLO TERTIARY
- ESRI DOT STREAMS
- USGS DLO PERENNIAL
- STREAM
- LOOTO ROADS 1999
- USGS DLO INTERMITTENT
- STREAM
- USDA NUC RDCIT LOUISIANA
- LDEQ LAKE 1999
- LDEQ SUBSEQUENTS 2006
- LOOTO PARISHES
- LOOTO LA BOUNDARY
- USGS DLO WATER POLYGONS
- State DNG 1214



October 21, 2009

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